

04CO

02-13-01

OIPE

No 3

RAW SEQUENCE LISTING

DATE: 01/29/2001

PATENT APPLICATION: US/09/759,143

TIME: 13:18:47

Input Set : A:\427c23.TXT

Output Set: N:\CRF3\01292001\I759143.raw

ENTERED
See P. 5

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3 <110> APPLICANT: Xu, Jiangchun
4   Dillon, Davin C.
5   Mitcham, Jennifer L.
6   Harlocker, Susan L.
7   Jiang, Yuqui
8   Henderson, Robert A.
9   Kalos, Michael D.
10  Fanger, Gary R.
11  Retter, Marc W.
12  Stolk, John A.
13  Day, Craig H.
14  Vedvick, Thomas S.
15  Carter, Darrick
16  Li, Samuel
17  Wang, Aijun
18  Skeiky, Yasir A.W.
19  Hepler, William
24 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
25   DIAGNOSIS OF PROSTATE CANCER
27 <130> FILE REFERENCE: 210121.427C23
C--> 29 <140> CURRENT APPLICATION NUMBER: US/09/759,143
30 <141> CURRENT FILING DATE: 2001-01-12
32 <160> NUMBER OF SEQ ID NOS: 934
34 <170> SOFTWARE: FastSEQ for Windows Version 3.0
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 814
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapien
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: (1)...(814) /
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49   ccagggggtc cagtcctctt ccttacttca tcccatcccc atgccaaaagg aagaccctcc      180
50   ctcccttggt cacagccttc tctaggtctc ccagtgcttc caggacacag tgggttatgt      240
51   ttccagctcc atcccttctg tgagtgctct gtgcgttggt cctccagctt ctgctcagtg      300
52   cttcatggac agtgctcagc acatgtcact ctccactctc tcagtggtga tccactagtt      360
53   cttagagcgg ccgccaccgc gtggagctcc agcttttgtt ccccttagtg agggttlaatt      420
54   gcgcgcttgg cgtaatcatg gtcataactg ttccctgtgt gaaattgtta tccgctcaca      480
55   attccacaca acatacyagc cgggaagcata aagtytaay cctgggggtgc ctaatgagtg      540
W--> 56   anctaaactca cattaatgtc gttgcgctca ctgnccgctt tccagtcnng aaaactgtcg      600
W--> 57   tgccagctgc attaatgaat cggccaaacgc nccgggaaaa cgggtttgct ttttgggggc      660
W--> 58   tcttcgcgtt ctgcgtcact nantcctgcg ctccggtentt cggctgcggg gaacgggtatc      720
W--> 59   actcctcaaa ggnggtatta cggttatccn naaatcnngg gataccnngg aaaaaanttt      780
W--> 60   aacaaaaggg cancaaaggg cngaaacgta aaaa                                814

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Input Set : A:\427c23.TXT
 Output Set: N:\CRF3\01292001\I759143.raw

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62 <210> SEQ ID NO: 2
63 <211> LENGTH: 816
64 <212> TYPE: DNA
65 <213> ORGANISM: Homo sapien
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68 <221> NAME/KEY: misc_feature
69 <222> LOCATION: (1)...(816) /
70 <223> OTHER INFORMATION: n = A,T,C or G
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74 ttcattggctg ttggagcaat agaaccacag ttctacgagc tgctgatcaa aggacttggg      120
75 ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaqa aatgaagaaq      180
76 aagtttgacg atgtattttc aaagaagacg aaggcagagt ggtgtcaaat ctttgacggc      240
77 acagatgcct gtgtgactcc ggtttcgaact tttagaggag ttgttcacaa tgatcacaaac      300
78 aaggaaacggg gctcgtttat caccagtgaq gacgaggacq tgagcccccq cctgcacct      360
79 ctgctgttaa acacccacag catcccttct ttcaaaaggg atccactagt tctagaagcq      420
80 gccgccaccg cgggtggagct ccagcttttg ttccctttag tgagggttaa ttgcgcgctt      480
81 ggcgtaatac tggtcatagc tgtttcctgt gtgaaattgt tatccgctca caattccccc      540
W--> 82 aacatacgag cgggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn      600
W--> 83 cattaattgc gttgcgctca ctgcccgctt tccagtcggg aaaactgtcg tgccactgcn      660
W--> 84 ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggctctc tccgctttcc      720
W--> 85 tcgctcattg atcctngcnc ccggtcttcg gctgcggnga acggttcaact cctcaaaaggc      780
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89 <211> LENGTH: 773
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapien
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (1)...(773) /
96 <223> OTHER INFORMATION: n = A,T,C or G
98 <400> SEQUENCE: 3
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100 tctgtctct cactgggtgat aaacgagccc cgttccttgt tgtgatcatg atgaacaacc      120
101 tctcaaaaag tcagaaacgg agtcacacag gcactctgtc cgtcaaaagt ttgacaccac      180
102 tctgecttcg tcttctttgc aaatacatct gcaaaactct tcttcatttc tggccaatca      240
W--> 103 tccatgctca tctgattggg aagtccatca gactttagtc canntccttt gatcagcage      300
104 tctgagaact ggggttctat tgcaccaaca gccatgaatt ccccatctgc tgtcctgtaa      360
105 gtcgtataga aagggtgctcc accatccaac atgttctgtc ctgcaggggg ggcccggtac      420
W--> 106 ccaattcgcc ctatantgag tctgtattacg cgcgctcaact ggccgctcgtt ttacaacgtc      480
107 gtgactggga aaacctggg cgttaccac ttatctgctc tgcagcacat ccccttttcg      540
W--> 108 ccagctgggc gtaatanca aaaggccgc accgatcgcc ctccaacag ttgcgcacct      600
W--> 109 gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnngg tttngttgtt      660
W--> 110 acccccacnt nnaccgctta cactttgcca gcgccttanc gccgcctccc tttcnccttt      720
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113 <210> SEQ ID NO: 4
114 <211> LENGTH: 828
115 <212> TYPE: DNA
116 <213> ORGANISM: Homo sapien

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126 tcgggaacact ggcgtctctt gaagacttct cgtcagttt cagtggagg acacacaaag 180
127 acgtgggtga ccatgtttgt tgtgggtgac agagatggga ggggtgggg ccacctgga 240
128 agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
W--> 129 acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct 360
W--> 130 gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
W--> 131 ctanagcgcg cgccaccgcg gtgganctcc ancttttgtt cctcttagtg aggggttaatt 480
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W--> 133 attccacaca acatacganc cggaaacata aantgtaaac ctgggggtgcc taatgantga 600
W--> 134 ctaactcaca ttaattgcgt tgcgctcact gcccgctttc caatcnggaa acctgtcttg 660
W--> 135 ccncttgcat tnatgaatcn gccaaacccc ggggaaaagc gtttgcgttt tgggcgctct 720
W--> 136 tccgcttctc cncctantta ntccctnenc tcggtcattc cggctgcngc aaaccggttc 780
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140 <211> LENGTH: 834
141 <212> TYPE: DNA
142 <213> ORGANISM: Homo sapien
144 <220> FEATURE:
145 <221> NAME/KEY: misc_feature
146 <222> LOCATION: (1)...(834) /
147 <223> OTHER INFORMATION: n = A,T,C or G
149 <400> SEQUENCE: 5
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151 agtttttaatt gcatccaaag tactaacaac aactctagca atcaagaatg gcagcatgtt 120
152 attttataac aatcaacacc tgtggctttt aaaaatttgg ttccataaga taattttatac 180
153 tgaagttaaa ctaagccatgc ttttaaaaaa tgccttaggt cactccaagc ttggcagttt 240
154 acatttggca taacacaata taaaacaatc acaatttaat aaataacaaa tacaacattg 300
155 taggccaata tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360
156 aatagaatac cttggcctct atgcaaatat gctagacac ttltgattcac tcagccctga 420
157 cattcagttt tcaaatgtag agacaggttc tacagtatca ttttacagtt tccaacacat 480
158 tgaaaaaag tagaaaatga ttagttgatt ttattaatg cattacatcc tcaagagttt 540
159 tcaccaaccc ctcagttata aaaaattttc agtttatatt agtcataata ctltgtgtgc 600
160 ttatttttaa ttagtgctaa atggatttaag tgaagacaac aatggteccc taatgtgatt 660
W--> 161 gatatttgtc atttttacca gcttctaaat ctnaacttcc aggcctttga actggaacat 720
W--> 162 tgnatnacag tgttccanag ttncaccta ctggaacatt acagtgtgct tgattcaaaa 780
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165 <210> SEQ ID NO: 6
166 <211> LENGTH: 818
167 <212> TYPE: DNA
168 <213> ORGANISM: Homo sapien
170 <220> FEATURE:
171 <221> NAME/KEY: misc_feature
172 <222> LOCATION: (1)...(818)

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178 tgtaaagtga aatattagtt ggcggatgaa qcagatagtg aggaaagtgg agccaataat      180
179 gacgtgaagt ccgtggaagc ctgtggctac aagaatgttt gagccglaga tgcgctcgga      240
180 aatggtgaaq ggaagactcga agtactctga ggcctgttag agggtaaaat agagaccag      300
181 taaaattgta ataaacagtg cttgaattat ttggtttcgg ttgttttcta ttgacctatg      360
182 gtgagctcag gtgattgata ctctgatgac gaataatacg gatgtgttta ggaagtggac      420
183 ttctagggga tttagcgggg tgatgcctgt tggggggccag tgcctccta gttggggggg      480
184 aggggctagg ctggagtggg aaaaggctca gaaaatcctt gcgaagaaaa aaacttctga      540
185 ggtataaagt aqgattatcc cgtatcgaag gccttttttg acaggtggtg tgtggtgccc      600
186 ttggtatgtg ctttctcgtg ttacatcgcg ccatcattgg tatatggtta gtgtgttggg      660
W--> 187 ttantanggc ctantatgaa gaacttttgg antggaatta aatcaatngc ttggccggaa      720
W--> 188 gtcattanga nggctnaaaa ggcctgttta ngggtctggg ctnggtttta cccnaccat      780
W--> 189 ggaatncnc ccccggaacna ntgnatccct attcttaa      818
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192 <211> LENGTH: 817
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapien
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (1)...(817)
199 <223> OTHER INFORMATION: n = A,T,C or G
201 <400> SEQUENCE: 7
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203 cgggccctat ttcaagattt tttaggggaa ttaattctag gacgatgggt atgaaactgt      120
204 ggtttgctcc acagatttca gacattgac cgtagtatac ccccggtcgt gtagecgtga      180
205 aagtggtttg gtttagacgt ccgggaattg catctgtttt taagccta atgtgggacag      240
W--> 206 ctcatgagtg caagacgtct tgtgatgtaa ttattatacn aatgggggct tcaatcgga      300
207 gtactactcg attgtcaacg tcaaggatgc gcagtgccc tggttctagg aataatgggg      360
208 gaagtatgta ggaattgaag attaatccgc cgtagtccgt gttctcctag qttcaatacc      420
209 attggtggcc aattgatttg atggttaagg gagggatcgt tgaactcgtc tgttatgtaa      480
W--> 210 aggatncctt ngggatggga aggcnatnaa ggactangga tnaatggcgg gcangattt      540
W--> 211 tcaaacngtc tctanttcct gaaacgtctg aatgtttaat aanaattaan tttngttatt      600
W--> 212 gaatnttngg gaaaagggct tacaggacta gaaaccaa atngaaaanta atnntaangg      660
W--> 213 cnttatcntn aaaggtnata accnctccta tnatccacc caatngnatt cccacnncnn      720
W--> 214 acnattggat nccccanttc canaaanggc cccccccgg tgnannccnc cttttgttcc      780
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218 <211> LENGTH: 799
219 <212> TYPE: DNA
220 <213> ORGANISM: Homo sapien
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)...(799)
225 <223> OTHER INFORMATION: n = A,T,C or G
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229 cataaggaga actttctgct ggcacgcgct agggacaagc gggagagcga ctccgagcgt 120
230 ctgaagcgca cgtcccagaa ggtggacttg gcactgaaac agctgggaca catcccgag 180
231 tacgaacagc gcttgaaggt gctggagcgg gaaggtccagc agtgtagccg cgtcctgggg 240
W--> 232 tgggtggcgg angcctganc cgctctgect tgcctgcccc angtgggccg ccccccctg 300
W--> 233 acctgectgg gtccaaacac tgagccctgc tggcggactt caagganaac cccacangg 360
W--> 234 ggattttgct cctanantaa ggctcatctg ggctctggcc cccccacctg gttggccttg 420
W--> 235 tctttgagt gagecccatg tccatctggg ccaactgtcng gaccaccttt ngggagtgtt 480
W--> 236 ctctttacaa ccacannatg cccggctcct cccggaaacc antccancc tnggaaggat 540
W--> 237 caagnectgn atccactnnt nctanaaccg gccnccnccg cngtggaaac cnccttntgt 600
W--> 238 tecttttctn tnaggggttaa tnnccgcttg gccttnccan ngctctnccn ntttccnnt 660
W--> 239 gttnaaattg ttangncccc nccnntccen cnnnnnnan cccgaccenn anntttnann 720
W--> 240 ncttgggggt nccnnngat tgaccnccc nccctntant tgctntnggg ncnnttgccc 780
W--> 241 ctttccctct nggganncg 799

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244 <211> LENGTH: 801
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapien
248 <220> FEATURE:
249 <221> NAME/KEY: misc_feature
250 <222> LOCATION: (1)...(801) /
251 <223> OTHER INFORMATION: n = A,T,C or G
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256 caaggacaag gccaccaagt gcgggggccc aaqcccacat gatccttact ctatgagcaa 180
W--> 257 aatccccctgt gggggcttct ccttgaagtc cggcancagg gctcagttct tggaccang 240
W--> 258 caggtcatgg ggttgtnngc caactggggg ccncaacgca aaanggcna gggcctcngn 300
W--> 259 caccateccc angacggcgc tacactnctg gacctccncc tccaccactt tcactgcctg 360
W--> 260 ttcttaccgg cgnatntgtc ccanctgttt cngtgcenac tccancttct nggacgtgcg 420
W--> 261 ctacatacgc ccggantcnc nctcccgttt tgctccatc cagctnccan caacaaattt 480
W--> 262 cncctantg caccnattec cacttttnc agntttccn nncngcttc cttntaaaag 540
W--> 263 ggttgancce cggaaaatnc cccaaaggg gggggccngg tacccaactn cccctnata 600
W--> 264 gctgaantcc ccatnaccnn gnetcnatgg anccntcct ttaannacn ttctnaactt 660
W--> 265 gggaanance ctgncctn ccccncttaa tccnccctg cnangnnct ccccnntcc 720
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269 <210> SEQ ID NO: 10
270 <211> LENGTH: 789
271 <212> TYPE: DNA
272 <213> ORGANISM: Homo sapien
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature /
276 <222> LOCATION: (1)...(789)
277 <223> OTHER INFORMATION: n = A,T,C or G
279 <400> SEQUENCE: 10
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281 acagtgtgga cgtggtgaca gcttcagccg cctccaccg gttcaccctt cagccctgc 120
282 agatcctgca ctacacactg gctccctct accaccggga gaagcagtg ttccctgcca 180
283 aataccgagg ggacactgga ggtgctagca gtgaggacag cgtgatgacc agcttccctg 240

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 01/29/2001

PATENT APPLICATION: US/09/759,143

TIME: 13:18:48

Input Set : A:\427c23.TXT

Output Set: N:\CRF3\01292001\I759143.raw

L:29 M:270 C: Current Application Number differs, Wrong Format
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:60 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
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L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:131 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
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L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
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L:232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

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PATENT APPLICATION: US/09/759,143

DATE: 01/29/2001
TIME: 13:18:48

Input Set : A:\427c23.TXT
Output Set: N:\CRF3\01292001\I759143.raw

L:241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9